# MONTHLY WEATHER REVIEW.

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Mr. Horace E. Smith, Chief Clerk of Weather Bureau, Professors Henry A. Hazen, Thomas Russell, and Charles F. Marvin, and Mr. Edward B. Garriott, in charge of Review Room. BOARD OF EDITORS

### INTRODUCTION.

This REVIEW is based on reports for May, 1892, from 2,891 | 477 marine reports through the co-operation of the Hydroregular and voluntary observers. These reports are classi. graphic Office, Navy Department; 32 reports from Canadian fied as follows: 160 reports from Weather Bureau stations; 47 stations; marine reports through the "New York Herald Weather Service;" monthly reports from local weather serreports from United States Army post surgeons; 1,946 monthly reports from state weather service and voluntary observers; and international simultaneous observations. Trustworthy 229 reports through the Central Pacific Railway Company; newspaper extracts and special reports have also been used.

vices established in all states and territories, except Idaho;

# CHARACTERISTICS OF THE WEATHER FOR MAY, 1892.

wet weather interfered with farming operations. Immense 12th, at Eureka, Kans., on the 13th, near Allison, Kans., and damage to property was caused by floods in the Mississippi Mangum, Okla., on the 16th, near Olney, Ill., on the 28th, River and tributaries.

#### TEMPERATURE.

Unusually cool weather prevailed over the interior of the country, and in the Missouri and Red River of the North Valleys, on the middle-eastern slope of the Rocky Mountains, and over the middle and northern plateau regions the month was the coolest May on record. The principal cool wave of the month swept over the Southern States from the 22d to 24th, causing slight damage to vegetation by frost in northern parts of the Gulf States.

#### PRECIPITATION.

In interior districts the monthly precipitation was generally in excess. The most marked deficiency was shown over the Gulf and south Atlantic states. In eastern New York, the lower lake region, at points in the Ohio, middle and upper Mississippi valleys, and at Spokane, Wash., Red Bluff and Los Angeles, Cal., the precipitation was the greatest ever recorded for May. At Pensacola, Fla., the precipitation was of water was the highest reached since 1844, and plantations the least ever noted for May. From the 2d to the 4th a heavy above and below that place were reported under water. Desnowstorm prevailed over eastern Wyoming and western Ne-structive floods occurred along the Red River, in Texas and braska, causing considerable loss of stock on the ranges. On Louisiana. At Shreveport, La., the river reached the highest the 19th a severe snowstorm occurred in southern, central, and stage ever noted at that port, and large areas in Bossier parish northwestern Wisconsin. On the 20th and 21st a snowstorm, were submerged. At the close of the month the Willamette with high wind, visited western and northern New England.

#### LOCAL STORMS.

In the central valleys the month was marked by numerous severe local storms. The tornadoes in south-central Kansas from New England to Montana and southward to Missouri on the 27th were notably destructive to life and property. At and Oklahoma Territory the night of the 18–19th. In New sons were reported killed by tornadoes in central Texas. Tor- the zenith.

From the Mississippi River to the Rocky Mountains cold and | nadoes were reported in Oklahoma Territory on the 2d and and at Independence, Kans., on the 30th.

#### FLOODS.

Destructive floods occurred along the middle and lower Mississippi River and tributaries throughout the greater part of the month. The more important Mississippi levees held firm. About 60,000 acres of cultivated land in the American Bottom, opposite Saint Louis, Mo., were submerged. Water from crevasses inundated plantations in various parts of Louisiana. The Mississippi River reached high-water mark at New Orleans, La. The Missouri River flooded low-lying parts of Kansas City, Mo., and suburbs. Great devastation by flood was reported along the Illinois River. On the 18th a flood in the Floyd Valley, Iowa, resulted in the loss of about twenty lives, and destruction of property to the estimated value of \$1,000,000. The Arkansas River reached the highest stage ever known at Fort Smith, Ark., and overflowed about 10,000 acres of cultivated land in that section. At Little Rock, Ark., the stage River was over the lower docks at Portland, Oregon.

Wellington, Kans., twelve persons were reported killed, and England the display was very brilliant, and, at its height. three lives were lost near Harper, Kans. On the 31st six per-covered nearly the entire sky, with a well-defined corona near

## ATMOSPHERIC PRESSURE (expressed in inches and hundredths).

The distribution of mean atmospheric pressure for May, 1892, as determined from observations taken daily at 8 a.m. coast, where it is 30.05, and it is 30.00 and above in districts and 8 p.m. (75th meridian time), is shown on Chart II by isosouth of the Ohio and east of the Mississippi rivers. The and 8 p. m. (75th meridian time), is shown on Chart II by isobars.

In May the mean pressure is usually highest on the Oregon normal pressure for May is lowest over the west part of the